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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/657,585	09/08/2000	Wen-Kuan Chen	EM/CHEN/5997	2683	
7590 01/18/2005		EXAMINER			
Bacon & Thomas PLLC 4th Floor			LAROSE,	LAROSE, COLIN M	
625 Slaters Lan	e		ART UNIT	PAPER NUMBER	
Alexandria, VA 22314-1176			2623		
			DATE MAILED: 01/18/200	DATE MAILED: 01/18/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/657,585	CHEN, WEN-KUAN				
Office Action Summary	Examiner	Art Unit				
	Colin M. LaRose	2623				
The MAILING DATE of this communication app	<u> </u>	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period way Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status		-				
1) Responsive to communication(s) filed on 06 De	ecember 2004.					
	action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	х рапе Quayle, 1935 С.D. 11, 45	03 O.G. 213.				
Disposition of Claims						
<ul> <li>4)  Claim(s) 1,2 and 5-13 is/are pending in the approached 4a) Of the above claim(s) is/are withdraw</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1,5 and 13 is/are rejected.</li> <li>7)  Claim(s) 2 and 6-12 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or</li> </ul>	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the prior application from the International Bureau</li> <li>* See the attached detailed Office action for a list of</li> </ul>	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Dotice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5)  Notice of Informal P 6)  Other:	atent Application (PTO-152)				

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#### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6 December 2004 has been entered.

### Response to Amendments and Arguments

2. Applicant's amendments to claim 1 have overcome the previous rejections of claim 1 in paragraphs 7 and 9 of the Final Rejection dated 6 August 2004.

## Claim Objections

3. Claim 7 is objected to because of the following informalities: "filed" in line 4 should be -- field --. Appropriate correction is required.

## Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 1, 2, and 5-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Claim 1 calls for "storing decoded frame data in the frame buffer or the temporary buffer" and then recites that "the temporary buffer is provided to store the other frame data which has not been decoded." It is unclear whether the temporary buffer is to store only decoded data, only data that has not been decoded, or both.

Applicant is required to correct and/or clarify this apparent inconsistency.

Also, claim 1 call for the bit-stream buffer "being adapted to store <u>bit-stream</u> data" but then refers to "the <u>frame</u> data in the bit-stream buffer." It is unclear whether "bit-stream data" and "frame data" denote the same data or whether they are different.

Clarification and/or correction are required.

## Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the

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reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

7. Claims 1, 5, and 13 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent 6,594,315 by Schultz et al. ("Schultz").

Regarding claim 1, Schultz discloses a high-resolution picture decoding device (figure 1), comprising:

a memory device having a bit-stream buffer (buffer 12), a temporary buffer (video frame memory 60), and a frame buffer (8-line buffer 64), the bit-stream buffer being adapted to store bit-stream data from a storage media (i.e. the buffer 12 is adapted to store incoming MPEG data from any source); and

a decoding means for decoding the bit-stream data in the bit-stream buffer (decompressor 62 decodes the bit-stream data from buffer 12, wherein the bit-stream data has been decompressed and recompressed prior to application to the decompressor 62) and storing decoded frame data in the frame buffer (64), such that, when a still picture is to be displayed, the frame buffer stores a part of the frame data that has been decoded and corresponds to the still picture (i.e. the 8-line buffer 64 stores 8 lines of the still picture), and the temporary buffer is provided to store the other frame data which has not been decoded and which is to be decoded in real time as the still picture is being displayed (i.e. the video frame memory 60 stores other frame data that has yet to be decoded), and the decoded frame data in the frame buffer and real-time decoded frame data from the temporary buffer are output for displaying a high-resolution still picture (i.e. the data in both the video frame memory 60 and the 8-line buffer 64 are output for real-time display 72),

wherein the frame data in the bit-stream buffer is represented by multiple macroblock lines after being decoded by the decoding means (i.e. the frame data is an MPEG frame that consists of a plurality of macroblocks), the frame buffer only stores a portion of the macroblock lines that has been decoded (i.e. the 8-line buffer 64 stores only 8 lines of macroblock data) and corresponds to the frame data of the still picture, and the temporary buffer stores at least one other macroblock line to be decoded (i.e. the video frame memory 60 stores at least one macroblock line other than the macroblock lines stored in the 8-line buffer 64).

Regarding claim 5, Schultz discloses the frame buffer stores even numbered macroblock lines that have been decoded and correspond to the frame data of the picture (i.e. 8-line buffer 64 stores some even numbered macroblocks lines after decoding by the decompressor 62).

Regarding claim 13, Schultz discloses a multiplexer (68) which selects the decoded frame data in the frame buffer or the real-time decoded framed data from the temporary buffer to output.

#### Allowable Subject Matter

8. Claims 2 and 6-12 would be allowable if rewritten to overcome the rejection under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Regarding claim 2, Schultz's temporary buffer 60 has more memory space than his fram buffer 64.

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Regarding claim 6, Schultz's macroblock lines in the temporary buffer 60 are not half the

height of those in the frame buffer 64.

Regarding claim 7, Schultz does not disclose decoding even and odd fields of macroblock

lines, as claimed, since the data stored in video frame memory to be decoded is in de-interleaved

form (see column 6, lines 38-39).

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Colin M. LaRose whose telephone number is (703) 306-3489. If

attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amelia

Au, can be reached on (703) 308-6604. The fax phone number for the organization where this

application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the TC 2600 Customer Service Office whose telephone number is (703)

306-0377.

**CML** 

Group Art Unit 2623

17 January 2005

VIKKRAM BALI

PRIMARY EXAMINER